

# How to Make Your ZOOMerang

You can print out your ZOOMerang and make it into a little booklet.

## Here's how:

- Print all the ZOOMerang pages.
- Cut out each page along the dotted lines.
- Tape pages 1–6 together from end to end so that you have a long row.
- Tape pages A–F together to make a second long row.
- Lay one row face down on a table and put some glue on the back of the pages.
- Place the second row on top of the first row. The printed part of the second row should face you.
- Smooth out the glue with your hand.
- Let it dry and then fold your ZOOMerang where the pages join together.



## What You Need

- scissors
- tape
- glue

Voilà!

**What kinds of plants can you grow from the seeds of fruits and veggies in your kitchen? That's the mystery! Do a little detective work and find out.**

**What You Need**

- paper cup
- scissors
- a few pebbles
- potting soil
- seed from a fruit or vegetable

**Poke** a hole in the bottom of your cup and **put** the pebbles over the hole. They will help any extra water drain out of the cup.

**Fill** the container  $\frac{3}{4}$  full with soil.

**Make** a 2-centimeter hole in the soil, **drop** in the seed, and **cover** it with soil. **Water** the soil until water drips out of the hole at the bottom.

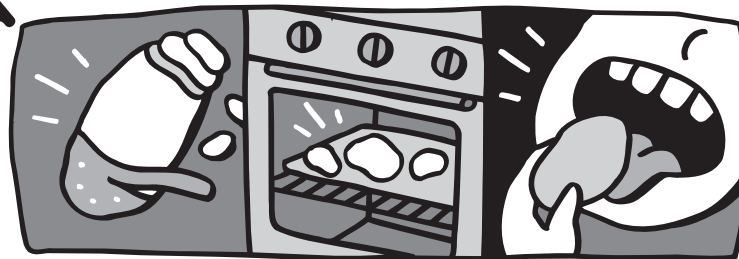
Do you **think** the seed will sprout? Give it a few weeks to **find out**. Leave it in a sunny place and be sure to keep the soil moist.

Make more Mystery Seed cups. (You might want to label them so that what's growing isn't a mystery too.) Write to ZOOM and tell us how many different seeds you got to grow and what plants they were. **Which seed grew the fastest? Which seed grew the tallest? Is there anything you can do to help your plants grow faster or bigger?** Send us drawings too!

**MYSTERY SEEDS**

Bake your own great-tasting taters.

# Homemade Potato Chips



### What You Need

- a potato
- vegetable peeler
- knife
- paper towel
- vegetable oil
- baking sheet
- salt
- spatula

### Ask an adult for help or permission before using a knife or the oven.

Wash and peel your potato. Then carefully cut the potato into very thin slices. Preheat your oven to 375 degrees.

Use the paper towel to rub some vegetable oil onto your baking sheet. This will keep the potato chips from sticking to the sheet. Put the potato slices on the sheet and sprinkle them with salt. Bake for 30 minutes.

When they look golden brown and crispy, take them out of the oven and use your spatula to flip them over. Sprinkle salt on the other side. Then bake them for another 20 minutes. When they're done, put them on a plate right away and let cool.

Cafe



Zoe gave ZOOM this recipe. Potatoes are her favorite food—what's yours? Send your CafeZOOM recipes to ZOOM, Box 350, Boston, MA 02134 or [pbskids.org/zoom](http://pbskids.org/zoom).

# P a p e r

Take recycling one step further by making homemade paper out of newspaper. Trees everywhere will thank you.

## What You Need

newspapers  
scissors  
large jar with a lid  
hot water  
plastic spoon  
disposable pan  
cornstarch  
wax paper

This can be messy, so you might want to use some of the newspaper to cover your work surface. **Cut** sheets of newspaper into strips and then **tear** them into tiny pieces. You'll need about 1 1/2 packed cups of shredded paper. **Place** the paper in a large jar and **fill** it with 3 cups of hot water.

# m a k i n g

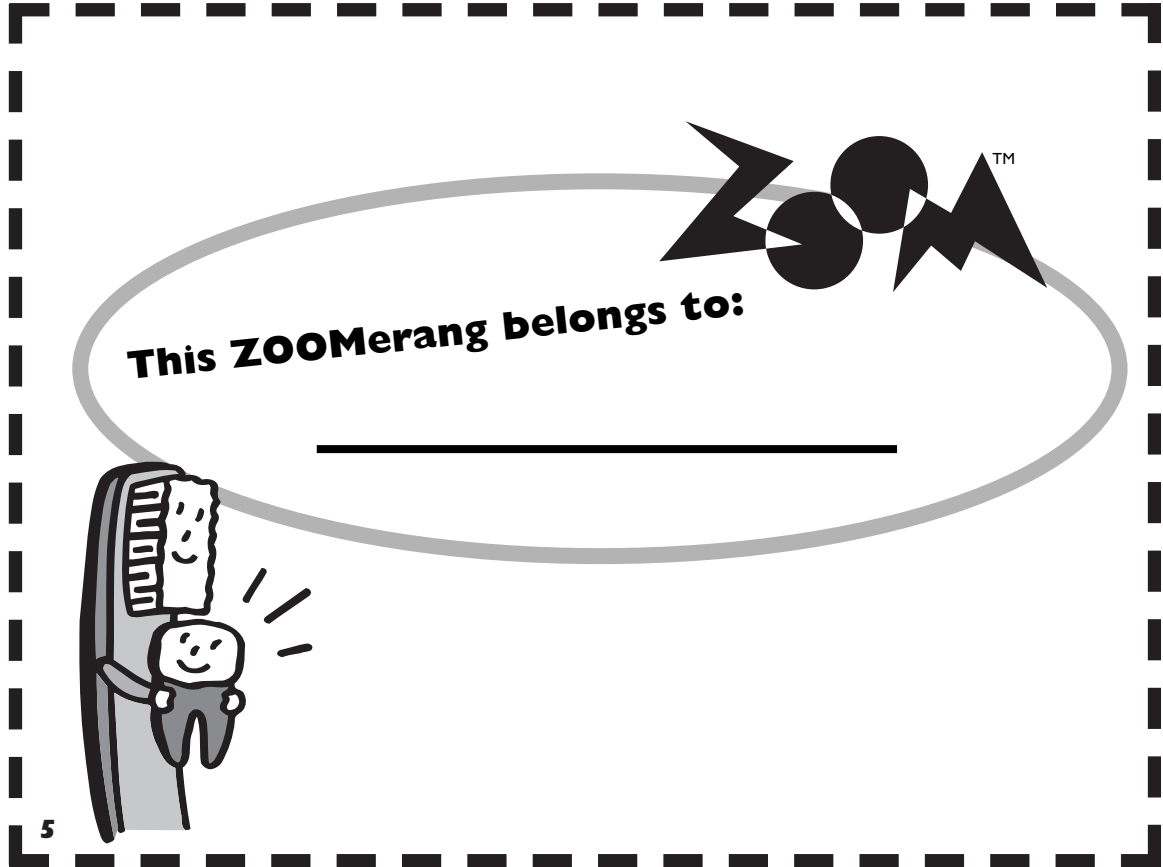
**Screw** the lid on the jar and let the mixture stand for about 3 hours. **Shake** the jar from time to time, and **stir** the pieces with a plastic spoon to keep them from clumping together. (Be sure to use a plastic spoon because the mixture will stain the spoon.) The more you stir the mixture, the smoother it will become. **Add** more hot water as the paper absorbs it.

When the mixture is pasty and creamy, **pour** it into a disposable pan. **Dissolve** 3 tablespoons of cornstarch in 1/2 cup of hot water. **Pour** it into the paper mixture and **mix** thoroughly. **Take** a handful of the mixture and squeeze out the excess water. **Put** the mixture on a piece of wax paper. **Smush** it down so it's flat like paper. **Put** another piece of wax paper on top and **press** your hands down on the top of the paper, letting the water seep out. **Wipe** the excess water off.

**Place** the paper in the sun to dry. **Repeat** this process with the rest of the mixture. As the paper dries, keep pressing it down to get the water out. Let it dry thoroughly overnight. **Decorate** your paper by putting leaves and flowers in it while it's wet or using crayons, markers, or paint when the paper is dry.

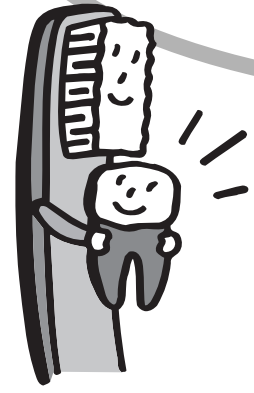
What other cool ZOOMdos can you make by recycling stuff from around your house? Write ZOOM a note on your homemade paper and show us how you decorated it.

Thanks to Emma L. of Vancouver, WA



**This ZOOMerang belongs to:**

\_\_\_\_\_





Zoomerang™

6



The Arthur  
Vining Davis  
Foundations



# Paddle

Can rubber bands be used to create energy? Try

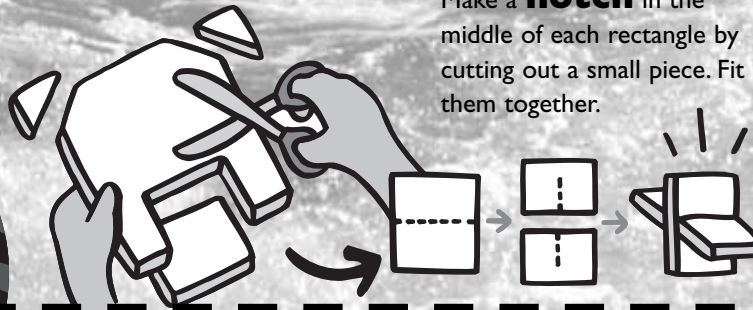
## What You Need

a Styrofoam tray  
scissors  
a rubber band

Cut the tray into a **square shape** and then clip off the top two corners. Cut a square out of the opposite end. This is where you will place the paddle wheel.

Make the **paddle wheel** by cutting two same-size rectangles out of the leftover Styrofoam. The rectangles shouldn't be bigger than the square shape you cut into the back of your boat.

Make a **notch** in the middle of each rectangle by cutting out a small piece. Fit them together.



De-coffinated  
(from Anonymous)  
What kind of coffee  
did Dracula like?

A



# Boat

## Try powering a homemade boat with one and find out!

To hook the paddle wheel to the boat, stretch the **rubber band** across the back of the boat. Take your paddle wheel and slip it between the rubber band.

You're **ready** to test your boat. Fill your bathtub with water. Turn the paddle wheel to wind up the rubber band, place it in the water, and let it go!

Why does the paddle wheel turn? The wound-up rubber band has a lot of energy. When it unwinds, the energy is released and it moves the paddle wheel. The paddle wheel pushes against the water to move the boat. Is there any way to make your boat go even farther? **Test your ideas** and send the results to ZOOM, Box 350, Boston, MA 02134 or [pbskids.org/zoom](http://pbskids.org/zoom).




B

Do you think boys or girls have more fillings? The ZOOM girls have a total of 4 fillings and the ZOOM boys also have a total of 4 fillings. But what about the boys and girls you know? Count their fillings (you may need a flashlight) and send us your results.



While you're at it, do you notice any other things about people and fillings? Does age affect who has more? Or personal hygiene? Conduct your own ZOOMsci experiment and send the results to ZOOM.

Sent in by the School Age Childcare in Upper Arlington, OH, which had 41 boys with a total of 32 fillings and 28 girls with a total of 8 fillings.



# TOOTH

# of boys	# of fillings	# of girls	# of fillings

# DECAY



What's your favorite ZOOM activity?

**Dirt Pudding.**

What are your favorite bands?

**Fleetwood Mac, the Who, Cream, and the Beatles.**

What's your favorite thing about school?

**Social studies and math.**

What do you want to be when you grow up?

**A basketball player.**

What animal most resembles you?

**A dog.**

Who from history or the present day would you most like to meet?

**John Adams.**

If you had something named after you, what would it be?

**A planet.**

If you were making your very own TV show, what would it be about?

**Sports.**

If you could change one thing about the world, what would it be?

**No more wars or pick up all the litter in the world.**



David



# The Web

Check out [pbskids.org/zoom](http://pbskids.org/zoom) to find more CafeZOOMs, ZOOMscis, ZOOMdos, and lots more. Oh, and if you don't have access to the Web at home, you should be able to find it at your school, public library, or the community centers in your neighborhood.



E

**Learn to Speak  
Ubbi! Dubbi!**

Just add "ub" before each vowel sound. Accent the "ub" each time it comes up. Cuban yubou subing thube ZUBOOM Ubaddrubess Subong ubin Ubbi Dubbi? Use the Ubbi! Dubbi! translator on ZOOM's Web site to turn Ubbi! Dubbi! into English, uband Ubbenglubish ubintubo Ubbi! Dubbi!

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Photos: Mark Ostow



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# ZOOM Address Song

Check it out!  
Check it out!  
We can't do it on our own,  
We need you to make it known,  
That everything you see  
Right here can only be  
On ZOOM because of  
everyone of you.  
Who? You!  
Feed us, a recipe, teach us,  
biology.  
Tell us a joke, show us a trick,  
a riddle, or some poetry.  
So if you want to see it  
comin' out of your TV,  
Type it up, write it down,  
and ship it off to ZOOM.  
How?  
E-Mail  
Send it to ZOOM,  
Or Zmail  
'Cause you call the tune.  
If you got a video,  
Give it up, we'll put it on  
the show.

A Zoop, a Zinger to  
Z double-O M  
ZOOM.  
It's you we'll be seein'  
Up on the screen.  
Write your name and  
your address  
And do what?  
Take a wild guess.  
E-mail  
Send it off to ZOOM,  
Or Zmail  
You call the tune.  
E-mail  
Send it to ZOOM,  
To Whom?  
Triple W dot P-B-S dot org.  
Zmail  
You know to whom.  
To ZOOM!  
Z double-O-M Box 3-5-0  
Boston, Mass  
0-2-1-3-4.  
Send it to ZOOM!

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Great Blue Hills Music, Irving Music, Inc. and Newton Wayland Music, Inc.

# ZOOM Needs You



What's the coolest  
game you and your  
friends ever made up?  
Tell us how to play it!



Be the next Bill  
Shakespeare. Send ZOOM  
your short original plays.



What do you want to hear  
the ZOOMers talk about?  
Moving? Making friends?  
Give us stuff to discuss.

Send your ideas to  
ZOOM  
Box 350  
Boston, MA 02134  
[pbskids.org/zoom](http://pbskids.org/zoom)